

# STIC Search Report Biotech-Chem Library

# STIC Database Tracking Number: 97136

TO: Robert Mondesi Location: cm-1/5d16

Art Unit: 1653

Search Notes

Friday, June 27, 2003

Case Serial Number: 828592

From: Mary Jane Ruhl

**Location: Biotech-Chem Library** 

CM1-6A06

Phone: 605-1155

maryjane.ruhl@uspto.gov

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$%^STN;HighlightOn= ***;HighlightOff=***
=> modified or truncated or mutated
        159432 MODIFIED
             1 MODIFIEDS
        159432 MODIFIED
                 (MODIFIED OR MODIFIEDS)
         20884 TRUNCATED
         20888 MUTATED
L1
        199233 MODIFIED OR TRUNCATED OR MUTATED
=> H-helix
        655974 H
         36209 HELIX
           160 HELIXES
         10065 HELICES
         41728 HELIX
                 (HELIX OR HELIXES OR HELICES)
L2
           168 H-HELIX
                 (H(W)HELIX)
=> anti-thrombin
        449575 ANTI
            13 ANTIS
        449583 ANTI
                 (ANTI OR ANTIS)
         32988 THROMBIN
           164 THROMBINS
         33020 THROMBIN
                 (THROMBIN OR THROMBINS)
          2764 ANTI-THROMBIN
L3
                 (ANTI(W)THROMBIN)
=> 11 and 12 and 13
             0 L1 AND L2 AND L3
L4
  11 and 13
            76 L1 AND L3
=> 15 and 12
             0 L5 AND L2
L6
=> 11 and 13
            76 L1 AND L3
=> d ti 1-10
     ANSWER 1 OF 76 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN
L7
     Biologically engineered protein-graft-poly(ethylene glycol) hydrogels: A
TI
     cell adhesive and plasmin-degradable biosynthetic material for tissue
     repair.
     ANSWER 2 OF 76 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN
L7
     DNA aptamers as radically new recognition elements for biosensors.
TT
L7
     ANSWER 3 OF 76 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN
     Tissue injury and the inflammatory response to pediatric cardiac surgery
TI
     with cardiopulmonary bypass: A descriptive study.
L7
     ANSWER 4 OF 76 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN
     Different pharmacokinetic and pharmacodynamic properties of tinzaparin
TI
     measured by external calibration curves in a primate model.
     ANSWER 5 OF 76 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN
L7
     Surface modification of polyethylene balloon catheters for local drug
TI
     delivery.
     ANSWER 6 OF 76 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN
L7
     Prothrombotic state and elevated levels of plasminogen activator
TI
     inhibitor-1 in mitral stenosis with and without atrial fibrillation.
L7
     ANSWER 7 OF 76 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN
     Selection of S18326 as a new potent and selective boronic acid direct
TI
     thrombin inhibitor.
```

ANSWER 8 OF 76 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN

**L7** 

- Activation of blood coagulation at heparin-coated surfaces. TI
- L7 ANSWER 9 OF 76 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN TT Probing serpin reactive-loop conformations by proteolytic cleavage.
- ANSWER 10 OF 76 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN L7 Synthetic modification of PAN membrane: Biocompatibility and functional TI characterization.

### => d ti 11-20

- ANSWER 11 OF 76 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN L7
- Lipophilically \*\*\*modified\*\*\* low molecular mass heparins have TI improved pharmacodynamic properties.
- ANSWER 12 OF 76 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN L7
- Immobilization of a lysine-terminated heparin to polyvinyl alcohol. TI
- **L7** ANSWER 13 OF 76 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN
- Heparin binding proteins: Contribution to heparin rebound after TI cardiopulmonary bypass.
- ANSWER 14 OF 76 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN L7
- HALISTANOL SULFATES A-E NEW STEROID SULFATES FROM A MARINE SPONGE TI EPIPOLASIS-SP.
- ANSWER 15 OF 76 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN L7
- TI HEPARINASE II FROM FLAVOBACTERIUM-HEPARINUM HPLC ANALYSIS OF THE SACCHARIDES GENERATED FROM CHEMICALLY \*\*\*MODIFIED\*\*\* HEPARINS.
- ANSWER 16 OF 76 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN L7
- HUMAN ALPHA-1 PROTEINASE INHIBITOR CRYSTAL STRUCTURE ANALYSIS OF 2 CRYSTAL TI MODIFICATIONS MOLECULAR MODEL AND PRELIMINARY ANALYSIS OF THE IMPLICATIONS FOR FUNCTION.
- ANSWER 17 OF 76 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN L7
- PREPARATION OF AN ASYMMETRIC SEMI PERMEABLE MEMBRANE WITH ANTI COAGULANT TI ACTIVITY.
- ANSWER 18 OF 76 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN L7
- INTERACTIONS OF HUMAN PLATELETS WITH INSOLUBLE ANTI COAGULANT TI \*\*\*MODIFIED\*\*\* POLY STYRENE RESINS.
- L7
- ANSWER 19 OF 76 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN REACTION OF \*\*\*ANTI\*\*\* \*\*\*THROMBIN\*\*\* III WITH THROMBIN BOUND TO TI THE VASCULAR ENDOTHELIUM ANALYSIS IN A RE CIRCULATING PERFUSED RABBIT HEART PREPARATION.
- L7 ANSWER 20 OF 76 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN
- ADSORPTION OF PURIFIED THROMBIN OR \*\*\*ANTI\*\*\* \*\*\*THROMBIN\*\*\* TT FOR 2 INSOLUBLE ANTI COAGULANT POLY STYRENE DERIVATIVES 2. COMPETITION WITH THE OTHER PLASMA PROTEINS.

### => d ti 21-31

- ANSWER 21 OF 76 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN L7
- CHARACTERIZATION OF THE THROMBIN INDUCED CONTRACTION OF VASCULAR SMOOTH TI MUSCLE.
- ANSWER 22 OF 76 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN L7
- RECEPTOR MEDIATED CHEMO TACTIC RESPONSE OF A MACROPHAGE CELL LINE J-774 TO ΤI THROMBIN.
- L7 ANSWER 23 OF 76 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN
- EFFECTS OF ENZYMATIC DEGLYCOSYLATION ON THE BIOLOGICAL ACTIVITIES OF HUMAN TT \*\*\*ANTI\*\*\* \*\*\*THROMBIN\*\*\* . THROMBIN AND
- L7
- ANSWER 24 OF 76 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN PROPERTIES OF \*\*\*ANTI\*\*\* \*\*\*THROMBIN\*\*\* THROMBIN COMPLEX FORMED IN TI THE PRESENCE AND IN THE ABSENCE OF HEPARIN.
- ANSWER 25 OF 76 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN L7
- MONOCYTE CHEMO TAXIS STIMULATION BY SPECIFIC EXOSITE REGION IN THROMBIN TI EC-3.4.21.5.

- L7 ANSWER 26 OF 76 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. ON STN
  TI COMPARISON OF IMMUNOCHEMICAL AND BIOLOGICAL PROPERTIES OF HUMAN

  \*\*\*ANTI\*\*\* \*\*\*THROMBIN\*\*\* DURING BLOOD CLOTTING AND UPON INTERACTION
  WITH EXOGENOUS THROMBIN.
- L7 ANSWER 27 OF 76 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. ON STN
  TI \*\*\*MODIFIED\*\*\* LEVELS OF \*\*\*ANTI\*\*\* \*\*\*THROMBIN\*\*\* III AND
  CIRCULATING \*\*\*ANTI\*\*\* \*\*\*THROMBIN\*\*\* III COMPLEXES IN PATIENTS
  WITH ARGENTINE HEMORRHAGIC FEVER.
- L7 ANSWER 28 OF 76 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. ON STN
  TI \*\*\*ANTI\*\*\* \*\*\*THROMBIN\*\*\* III BINDING TO SC-5B-9 ATTACK COMPLEXES
  OF HUMAN COMPLEMENT DISSOCIATION OF A \*\*\*MODIFIED\*\*\* \*\*\*ANTI\*\*\*

  \*\*\*THROMBIN\*\*\* III DERIVATIVE SUBSEQUENT TO COMPLEX FORMATION.
- L7 ANSWER 29 OF 76 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN MECHANISM OF THROMBIN BINDING TO ENDOTHELIAL CELLS.
- L7 ANSWER 30 OF 76 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN PRODUCTION IN-VITRO AND PROPERTIES OF A \*\*\*MODIFIED\*\*\* FORM OF BOVINE \*\*\*ANTI\*\*\* \*\*\*THROMBIN\*\*\* CLEAVED AT THE ACTIVE SITE BY THROMBIN.
- L7 ANSWER 31 OF 76 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN TI MECHANISM OF INACTIVATION OF TRYPSIN BY \*\*\*ANTI\*\*\* \*\*\*THROMBIN\*\*\*
- => di ti 32-42 205848 DI 7567 DIS 212829 DI (DI OR DIS) 7705 TI 674 TIS 8325 TI (TI OR TIS) 183806 32 139152 42 L8 0 DI TI 32-42 (DI(W)TI(W) 32(W) 42)
- => 15 d ti 32-42
  MISSING OPERATOR L5 D TI
  The search profile that was entered contains terms or
  nested terms that are not separated by a logical operator.
- => 15 L9 76 L1 AND L3
- => d ti 32~42
- L9 ANSWER 32 OF 76 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN INTERACTIONS OF ANTI COAGULANT INSOLUBLE \*\*\*MODIFIED\*\*\* POLY STYRENE RESINS WITH PLASMATIC PROTEINS.
- L9 ANSWER 33 OF 76 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. ON STN HEPARIN TREATMENT OF MICRO ANGIOPATHIC HEMOLYTIC ANEMIA ASSOCIATED WITH AN EXPERIMENTAL TUMOR.
- L9 ANSWER 34 OF 76 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. ON STN REACTION OF \*\*\*ANTI\*\*\* \*\*\*THROMBIN\*\*\* WITH PROTEASES NATURE OF THE REACTION WITH TRYPSIN.
- L9 ANSWER 35 OF 76 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN TI DISTINCTION OF 2 PATHOLOGIC \*\*\*ANTI\*\*\* \*\*\*THROMBIN\*\*\* II MOLECULES \*\*\*ANTI\*\*\* \*\*\*THROMBIN\*\*\* III AALBORG AND \*\*\*ANTI\*\*\* \*\*\*THROMBIN\*\*\* III BUDAPEST.
- L9 ANSWER 36 OF 76 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN THE ACTIVE SITE OF \*\*\*ANTI\*\*\* \*\*\*THROMBIN\*\*\* RELEASE OF THE SAME PROTEOLYTICALLY CLEAVED FORM OF THE INHIBITOR FROM COMPLEXES WITH

### FACTOR-IXA FACTOR X-A THROMBIN.

- L9 ANSWER 37 OF 76 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN TI THE IN-VIVO METABOLISM OF \*\*\*ANTI\*\*\* \*\*\*THROMBIN\*\*\* III AND \*\*\*ANTI\*\*\* \*\*\*THROMBIN\*\*\* III COMPLEXES.
- L9 ANSWER 38 OF 76 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN HUMAN URINARY TRYPSIN INHIBITORS PURIFIED BY AFFINITY CHROMATOGRAPHY ON TRYPSIN SEPHAROSE.
- L9 ANSWER 39 OF 76 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN TI EFFECT OF ORAL CONTRACEPTIVES ON \*\*\*ANTI\*\*\* \*\*\*THROMBIN\*\*\* III.
- L9 ANSWER 40 OF 76 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN TI KINETICS OF ELIMINATION OF \*\*\*ANTI\*\*\* \*\*\*THROMBIN\*\*\* III CONCENTRATE IN HEPARINIZED PATIENTS.
- L9 ANSWER 41 OF 76 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN IMMUNOLOGICAL EVIDENCE FOR A PROTEOLYTIC CLEAVAGE AT THE ACTIVE SITE OF \*\*\*ANTI\*\*\* \*\*\*THROMBIN\*\*\* IN THE MECHANISM OF INHIBITION OF COAGULATION SERINE PROTEASES.
- L9 ANSWER 42 OF 76 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN TI HEPARIN BINDING AND PROTEASE INHIBITOR ACTIVITY OF CHEMICALLY \*\*\*MODIFIED\*\*\* \*\*\*ANTI\*\*\* \*\*\*THROMBIN\*\*\* III.

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:ssspta1653rbm

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

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Web Page URLs for STN Seminar Schedule - N. America "Ask CAS" for self-help around the clock
NEWS
NEWS
         Feb 24
                  PCTGEN now available on STN
NEWS
          Feb 24
NEWS
                  TEMA now available on STN
          Feb 26
                  NTIS now allows simultaneous left and right truncation
NEWS
NEWS
         Feb 26
                  PCTFULL now contains images
      6
NEWS
         Mar 04
                  SDI PACKAGE for monthly delivery of multifile SDI results
NEWS
         Mar 24
                  PATDPAFULL now available on STN
      9
         Mar 24
                  Additional information for trade-named substances without
NEWS
                  structures available in REGISTRY
                  Display formats in DGENE enhanced
NEWS 10
         Apr 11
         Apr 14
NEWS 11
                  MEDLINE Reload
                  Polymer searching in REGISTRY enhanced Indexing from 1947 to 1956 added to records in CA/CAPLUS
         Apr 17
Jun 13
NEWS 12
NEWS 13
         Apr 21
                  New current-awareness alert (SDI) frequency in
NEWS 14
                  WPIDS/WPINDEX/WPIX
NEWS 15
         Apr 28
                  RDISCLOSURE now available on STN
                  Pharmacokinetic information and systematic chemical names
NEWS 16
         May 05
                  added to PHAR
NEWS 17
         May 15
                  MEDLINE file segment of TOXCENTER reloaded
NEWS 18
         May 15
                  Supporter information for ENCOMPPAT and ENCOMPLIT updated
         May 19
                  Simultaneous left and right truncation added to WSCA
NEWS 19
NEWS 20
         May 19
                  RAPRA enhanced with new search field, simultaneous left and
                  right truncation
NEWS 21
          Jun 06
                  Simultaneous left and right truncation added to CBNB
NEWS 22
          Jun 06
                  PASCAL enhanced with additional data
          Jun 20
                  2003 edition of the FSTA Thesaurus is now available
NEWS 23
NEWS 24
          Jun 25
                  HSDB has been reloaded
NEWS 25
          Jul 16
                  Data from 1960-1976 added to RDISCLOSURE
NEWS 26
         Ju] 21
Ju] 21
                  Identification of STN records implemented
NEWS 27
                  Polymer class term count added to REGISTRY
          Jul 22
NEWS 28
                  INPADOC: Basic index (/BI) enhanced; Simultaneous Left and
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Right Truncation available

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NEWS EXPRESS April 4 CURRENT WINDOWS VERSION IS V6.01a, CURRENT
               MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP)
               AND CURRENT DISCOVER FILE IS DATED 01 APRIL 2003
               STN Operating Hours Plus Help Desk Availability
 NEWS HOURS
               General Internet Information
 NEWS INTER
               Welcome Banner and News Items
 NEWS LOGIN
               Direct Dial and Telecommunication Network Access to STN
 NEWS PHONE
               CAS world wide web Site (general information)
 NEWS WWW
Enter NEWS followed by the item number or name to see news on that
specific topic.
  All use of STN is subject to the provisions of the STN Customer
  agreement. Please note that this agreement limits use to scientific
             Use for software development or design or implementation
  of commercial gateways or other similar uses is prohibited and may
  result in loss of user privileges and other penalties.
  FILE 'HOME' ENTERED AT 11:08:23 ON 01 AUG 2003
=> modified or mutated or substituted
THIS COMMAND NOT AVAILABLE IN THE CURRENT FILE
Some commands only work in certain files. For example, the EXPAND
command can only be used to look at the index in a file which has an index. Enter "HELP COMMANDS" at an arrow prompt (=>) for a list of
commands which can be used in this file.
=> file biosis
COST IN U.S. DOLLARS
                                                  SINCE FILE
                                                                  TOTAL
                                                       ENTRY
                                                                SESSION
                                                        0.42
                                                                   0.42
FULL ESTIMATED COST
FILE 'BIOSIS' ENTERED AT 11:09:13 ON 01 AUG 2003
COPYRIGHT (C) 2003 BIOLOGICAL ABSTRACTS INC.(R)
FILE COVERS 1969 TO DATE.
CAS REGISTRY NUMBERS AND CHEMICAL NAMES (CNs) PRESENT
FROM JANUARY 1969 TO DATE.
RECORDS LAST ADDED: 30 July 2003 (20030730/ED)
=> modified or mutated or substituted
        159635 MODIFIED
             1 MODIFIEDS
        159635 MODIFIED
                 (MODIFIED OR MODIFIEDS)
         20929 MUTATED
         61452 SUBSTITUTED
             1 SUBSTITUTEDS
         61453 SUBSTITUTED
                 (SUBSTITUTED OR SUBSTITUTEDS)
L1
        238888 MODIFIED OR MUTATED OR SUBSTITUTED
=> h-helix
        656516 H
         36241 HELIX
           160 HELIXES
         10078 HELICES
         41768 HELIX
                 (HELIX OR HELIXES OR HELICES)
L2
           168 H-HELIX
                 (H(W)HELIX)
=> anti-thrombin
       449960 ANTI
            13 ANTIS
        449968 ANTI
                 (ANTI OR ANTIS)
         33031 THROMBIN
           164 THROMBINS
         33063 THROMBIN
```

(THROMBIN OR THROMBINS)

```
=> file biosis
COST IN U.S. DOLLARS
                                                    SINCE FILE
                                                                     TOTAL
                                                         ENTRY
                                                                   SESSION
FULL ESTIMATED COST
                                                         74.01
                                                                     74.22
FILE 'BIOSIS' ENTERED AT 09:14:46 ON 17 JUL 2003
COPYRIGHT (C) 2003 BIOLOGICAL ABSTRACTS INC.(R)
FILE COVERS 1969 TO DATE.
CAS REGISTRY NUMBERS AND CHEMICAL NAMES (CNs) PRESENT
FROM JANUARY 1969 TO DATE.
RECORDS LAST ADDED: 16 July 2003 (20030716/ED)
=> s thrombin
         32897 THROMBIN
=> thrombomodulin
THROMBOMODULIN IS NOT A RECOGNIZED COMMAND
The previous command name entered was not recognized by the system.
For a list of commands available to you in the current file, enter "HELP COMMANDS" at an arrow prompt (=>).
=> s thrombomodulin
L2
          2344 THROMBOMODULIN
    anti-thrombin
ANTI-THROMBIN IS NOT A RECOGNIZED COMMAND
The previous command name entered was not recognized by the system.
For a list of commands available to you in the current file, enter
"HELP COMMANDS" at an arrow prompt (=>).
=> s anti-thrombin
        448895 ANTI
         32897 THROMBIN
          2745 ANTI-THROMBIN
L3
                  (ANTI(W)THROMBIN)
=> s (l1(w)l2(P)l3) and inhibi(?)
MISSING OPERATOR 'INHIBI(?'
The search profile that was entered contains terms or
nested terms that are not separated by a logical operator.
=> s (11(W)12(P)13) and inhibi?
              1 L1(W)L2(P)L3
       1131308 INHIBI?
L4
              1 (L1(W)L2(P)L3) AND INHIBI?
=> s 14 not (py>=2001)
       1268186 PY>=2001
              1 L4 NOT (PY>=2001)
=> d trial 1
     ANSWER 1 OF 1 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
L5
     1984:336530 BIOSIS
AN
DN
     BA78:73010
TI
     INFLUENCE OF PROTEIN C ACTIVATION ON BLOOD COAGULATION AND FIBRINOLYSIS IN
     SQUIRREL MONKEYS SAIMIRI-SCIUREUS.
     COLUCCI M; STASSEN J M; COLLEN D
     CENTER FOR THROMBOSIS AND VASCULAR RESEARCH, DEPARTMENT OF MEDICAL
CS
     RESEARCH, CAMPUS GASTHUISBERG-K. U. LEUVEN, HERESTRAAT 49, B-3000 LEUVEN,
     BELGIUM.
SO
     J CLIN INVEST, (1984) 74 (1), 200-204.
     CODEN: JCINAO. ISSN: 0021-9738.
FS
     BA; OLD
     Enalish
LA
     Protein C is a circulating proenzyme which, upon activation, exerts a
AB
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dogs is accompanied by an increase of circulating tissue plasminogen
       activator (PA) activity. However, the evidence that human protein C shares
       a similar profibrinolytic capacity is still lacking. The profibrinolytic properties of human protein C were investigated in squirrel monkeys (S. sciureus). Injection of activated human protein C resulted in prolongation of the activated partial thromboplastin time but was not associated with increased fibrinolytic activity of blood. Similarly, activation of endogenous protein C (up to 20-30%) by infusion of thrombin-thrombomodulin
       complex markedly reduced blood coagulability without being accompanied by
       an increase of circulating PA activity. The in vivo generated
       anticoagulant activity was identified as activated protein C by the
       following observations. It was neutralized by rabbit anti-human protein C-IgG, was slowly ***inhibited*** by plasma but not by antithrombin
       III, was adsorbable on barium citrate and expressed amidolytic activity.
       Activation of protein C appeared to be selective since other parameters such as thrombin time, platelet count, fibrinogen and factor V levels were unaffected by thrombin-thrombomodulin infusion. Infusion of human plasma derived from whole blood incubated in vitro with human activated protein C
       also did not induce a fibrinolytic response, suggesting that no 2nd
       messengers with PA-releasing activity were being generated in blood. In a primate, neither the administration of activated human protein C nor the
       activation of endogenous protein C are associated with an increase of
       fibrinolytic activity. These findings question the role of this enzyme in
       the regulation of PA release in man.
       Clinical Biochemistry; General Methods and Applications 10006
       Comparative Biochemistry, General 10010
Biochemical Studies - General 10060
Biochemical Studies - Proteins, Peptides and Amino Acids 10064
       Biochemical Studies - Carbohydrates
                                                             10068
       Biophysics - Biocybernetics
       Enzymes - Physiological Studies *10808
       Metabolism - Proteins, Peptides and Amino Acids *13012
       Blood, Blood-Forming Organs and Body Fluids - Blood and Lymph Studies
       *15002
       Blood, Blood-Forming Organs and Body Fluids - Blood Cell Studies 15004
       Routes of Immunization, Infection and Therapy 22100
In Vitro Studies, Cellular and Subcellular 32600
Immunology and Immunochemistry - General; Methods 34
Bovidae 85715
       Canidae 85765
       Leporidae 86040
       Cebidae 86200
       Hominidae 86215
       Miscellaneous Descriptors
            BOVINE DOG HUMAN RABBIT ANTI HUMAN PROTEIN C IMMUNO GLOBULIN G PLATELET
                              ***THROMBIN*** ***THROMBOMODULIN***
           FIBRINOGEN
                                                                                           COMPLEX
                                              ***ANTI***
                                                                    ***THROMBIN***
           PLASMINOGEN ACTIVATOR
                                                                                             III PRO ENZYME
            2ND MESSENGER
       9000-94-6 (ANTI THROMBIN)
       60202-16-6 (PROTEIN C)
=> anti-thrombin
RECORDS LAST ADDED: 16 July 2003 (20030716/ED)
=> set plurals on perm
SET COMMAND COMPLETED
=> set abbr on perm
SET COMMAND COMPLETED
=> s thrombin
             32897 THROMBIN
                162 THROMBINS
             32929 THROMBIN
                         (THROMBIN OR THROMBINS)
=> thrombomodulin
```

CC

BC

IT

RN

L1

THROMBOMODULIN IS NOT A RECOGNIZED COMMAND

potent anticoagulant activity. Infusion of activated bovine protein C into

```
The previous command name entered was not recognized by the system.
For a list of commands available to you in the current file, enter
 'HELP COMMANDS" at an arrow prompt (=>).
=> s thrombomodulin
          2344 THROMBOMODULIN
             5 THROMBOMODULINS
L2
          2344 THROMBOMODULIN
                  (THROMBOMODULIN OR THROMBOMODULINS)
  s antithrombin
          9827 ANTITHROMBIN
           100 ANTITHROMBINS
L3
          9867 ANTITHROMBIN
                  (ANTITHROMBIN OR ANTITHROMBINS)
=> s anti-thrombin or antithrombin
        448895 ANTI
            13 ANTIS
        448903 ANTI
                  (ANTI OR ANTIS)
         32897 THROMBIN
           162 THROMBINS
         32929 THROMBIN
                  (THROMBIN OR THROMBINS)
          2762 ANTI-THROMBIN
                  (ANTI(W)THROMBIN)
          9827 ANTITHROMBIN
           100 ANTITHROMBINS
          9867 ANTITHROMBIN
                  (ANTITHROMBIN OR ANTITHROMBINS)
         11446 ANTI-THROMBIN OR ANTITHROMBIN
=> s protein c
       1309040 PROTEIN
        495821 PROTEINS
       1509121 PROTEIN
                  (PROTEIN OR PROTEINS)
        992921 C
L<sub>5</sub>
         10682 PROTEIN C
                  (PROTEIN(W)C)
=> s protein(w)c
       1309040 PROTEIN
        495821 PROTEINS
       1509121 PROTEIN
                  (PROTEIN OR PROTEINS)
        992921 C
         10682 PROTEIN(W)C
16
\Rightarrow s (11(w)L2 and (13 or 15)) and inhbi?
           228 L1(W)L2
           620 INHBI?
L7
             0 (L1(W)L2 AND (L3 OR L5)) AND INHBI?
=> s (l1(w)L2 and (l3 or l5))
           228 L1(w)L2
L8
           187 (L1(W)L2 AND (L3 OR L5))
=> s (11(w)L2 \text{ and } 14 \text{ and } 15
UNMATCHED LEFT PARENTHESIS '(L1'
The number of right parentheses in a query must be equal to the
number of left parentheses.
=> s 11(w)L2 and 14 and 15
           228 L1(W)L2
            28 L1(W)L2 AND L4 AND L5
=> d TI 1-10
L9
     ANSWER 1 OF 28 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
TI
     The role of the amino terminal loop of
                                                ***antithrombin***
     inhibition of thrombin bound to thrombomodulin.
     ANSWER 2 OF 28 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
     Inhibition of endothelial cell-mediated generation of activated
TI
```

FILE COVERS 1969 TO DATE. CAS REGISTRY NUMBERS AND CHEMICAL NAMES (CNs) PRESENT FROM JANUARY 1969 TO DATE.

RECORDS LAST ADDED: 30 July 2003 (20030730/ED)

=> mutants or mutation
100973 MUTANTS
159179 MUTATION
129297 MUTATIONS
231378 MUTATION
(MUTATION OR MUTATIONS)
L1 297774 MUTANTS OR MUTATION
=> anti-thrombin

=> anti-thrombin
449960 ANTI
13 ANTIS
449968 ANTI
(ANTI OR ANTIS)
33031 THROMBIN
164 THROMBINS
33063 THROMBIN OR THROMBINS)

L2 2764 ANTI-THROMBIN
(ANTI(W)THROMBIN)

=> 11 and 12 L3 20 L1 AND L2

=> d ti 1-20

- L3 ANSWER 1 OF 20 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN TI Elevated factor VIII as a cause of thrombophilia.
- ANSWER 2 OF 20 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN Prevalence of hypercoagulable disorders in potential kidney transplant recipients.
- ANSWER 3 OF 20 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN Acquired activated protein C resistance is associated with the co-existence of anti-prothrombin antibodies and lupus anticoagulant activity in patients with systemic lupus erythematosus.
- ANSWER 4 OF 20 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN Genetic thrombophilia and peri-partum liver failure.
- ANSWER 5 OF 20 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN The importance of procoagulant screening in patients with inflammatory bowel disease complicated by venous thrombosis.
- ANSWER 6 OF 20 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN Construction, expression, and characterization of recombinant hirudin in Escherichia coli.
- L3 ANSWER 7 OF 20 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN Hereditary thrombophilia as a cause of Budd-Chiari syndrome: A study from western India.
- ANSWER 8 OF 20 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN The risk of recurrent venous thromboembolism among heterozygous carriers of the G20210A prothrombin gene \*\*\*mutation\*\*\*.
- ANSWER 9 OF 20 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN The importance of procoagulant screening in patients with inflammatory bowel disease complicated by venous thrombosis.
- ANSWER 10 OF 20 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN Characterization of a novel autosomal dominant bleeding disorder in a large kindred from east Texas.
- L3 ANSWER 11 OF 20 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN Associated prothrombotic abnormalities in patients with inflammatory bowel disease.

- ANSWER 12 OF 20 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN L3 Hypercoagulable thrombophilic defects and hyperhomocysteinemia in patients TI with recurrent pregnancy loss.
- ANSWER 13 OF 20 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN Abdominal venous thrombosis in neonates and infants: Role of prothrombotic TI risk factors: A multicentre case-control study.
- ANSWER 14 OF 20 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN L3 TT A hypofibrinolytic state in overweight patients with cerebral venous thrombosis and isolated intracranial hypertension.
- L3 ANSWER 15 OF 20 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN A phenylalanine 402 to leucine \*\*\*mutation\*\*\* is responsible for a TI stable inactive conformation of antithrombin.
- ANSWER 16 OF 20 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN L3 A NOVEL MISSENSE \*\*\*MUTATION\*\*\* IN THE ANTITHROMBIN III GENE TI SER349-PRO CAUSING RECURRENT VENOUS THROMBOSIS.
- ANSWER 17 OF 20 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN L3 TI. SITE-DIRECTED MUTAGENESIS OF ARGININE 103 AND LYSINE 185 IN THE PROPOSED GLYCOSAMINOGLYCAN-BINDING SITE OF HEPARIN COFACTOR II.
- ANSWER 18 OF 20 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN L3 ΤI \*\*\*ANTI\*\*\* \*\*\*THROMBIN\*\*\* III-TOYAMA REPLACEMENT OF ARGININE 47 BY \*\*\*THROMBIN\*\*\* \*\*\*ANTI\*\*\* CYSTEINE IN HEREDITARY ABNORMAL LACKS HEPARIN BINDING ABILITY.
- ANSWER 19 OF 20 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN \*\*\*MUTATION\*\*\* OF ANTI TRYPSIN TO \*\*\*ANTI\*\*\* \*\*\*THROMBIN\*\*\* L3 TI ALPHA-1 ANTI TRYPSIN PITTSBURGH A FATAL BLEEDING DISORDER.
- ANSWER 20 OF 20 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN L3 CARBOXY TERMINAL FRAGMENT OF HUMAN ALPHA-1 ANTI TRYPSIN FROM HYDROXYLAMINE TI CLEAVAGE HOMOLOGY WITH \*\*\*ANTI\*\*\* \*\*\*THROMBIN\*\*\*
- => 11 and 12 and naturally occuring 46572 NATURALLY 1911 OCCURING 297 NATURALLY OCCURING (NATURALLY(W)OCCURING) L4 0 L1 AND L2 AND NATURALLY OCCURING
- => naturally with occuring 46572 NATURALLY 1911 OCCURING L5
- 298 NATURALLY WITH OCCURING (NATURALLY(1W)OCCURING)
- => 11 and 12 and 15 O L1 AND L2 AND L5 L6
- => d ti 1-20
- L6 HAS NO ANSWERS L1 297774 SEA FILE=BIOSIS ABB=ON PLU=ON MUTANTS OR MUTATION L2 2764 SEA FILE=BIOSIS ABB=ON PLU=ON ANTI-THROMBIN
- 298 SEA FILE=BIOSIS ABB=ON PLU=ON NATURALLY WITH OCCURING L5
- O SEA FILE=BIOSIS ABB=ON PLU=ON L1 AND L2 AND L5 L6
- => 11 and 12 L7 20 L1 AND L2
- => d ab 1-10

Connection closed by remote host d ab 15,18

---Logging off of STN---

- \*\*\*C\*\*\* \*\*\*protein\*\*\* by direct and \*\*\*antithrombin\*\*\* -dependent thrombin inhibitors.
- L9 ANSWER 3 OF 28 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. Inhibition of a thrombin anion-binding exosite-2 mutant by the glycosaminoglycan-dependent serpins \*\*\*protein\*\*\* \*\*\*C\*\*\* inhibitor and heparin cofactor II. TI
- ANSWER 4 OF 28 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. L9
- TI Reduced thrombin formation capacity in severe haemophilia is associated with hypostimulation of procoagulant and anticoagulant pathways.
- ANSWER 5 OF 28 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. L9
- Effect of different types of thrombin inhibitors on \*\*\*thrombin\*\*\* TI \*\*\*\* \*\*\*thrombomodulin\*\*\* modulated activation of \*\*\*protein\*\*\* in vitro.
- L9
- ANSWER 6 OF 28 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. Role of a 23BP insertion in exon 3 of the endothelial cell \*\*\*protein\*\*\* ΤI receptor gene in venous thromboembolism.
- ANSWER 7 OF 28 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. L9
- Thrombin inhibitors suppress the \*\*\*thrombin\*\*\* \*\*\*thrombomodulin\*\*\* TI -mediated generation of activated \*\*\*protein\*\*\*
- L9
- ANSWER 8 OF 28 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. Association of plasma levels of activated \*\*\*protein\*\*\* \*\* with recanalization of the infarct-related coronary artery after TI thrombolytic therapy in acute myocardial infarction.
- ANSWER 9 OF 28 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. L9
- The inactivation of single-chain urokinase-type plasminogen activator by ΤI thrombin in a plasma milieu: Effect of thrombomodulin.
- ANSWER 10 OF 28 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. L9
- \*\*\*C\*\*\* activation by recombinant thrombomodulin in \*\*\*Protein\*\*\* TI plasma.
- => s 19 not py>=2000 1845435 PY>=2000
- **L10** 22 L9 NOT PY>=2000
- => s 19 not py>=2001
- 1268186 PY>=2001
- L11 23 L9 NOT PY>=2001
- => d ti 1-10
- L11 ANSWER 1 OF 23 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
- Role of a 23BP insertion in exon 3 of the endothelial cell \*\*\*protein\*\*\* ΤΊ \*\*\*\* receptor gene in venous thromboembolism.
- L11 ANSWER 2 OF 23 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
- Thrombin inhibitors suppress the \*\*\*thrombin\*\*\* \*\*\*thrombomodulin\*\*\* -mediated generation of activated \*\*\*protein\*\*\* \*\*\*C\*\*\* .
- L11
- ANSWER 3 OF 23 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. Association of plasma levels of activated \*\*\*protein\*\*\* \*\* with recanalization of the infarct-related coronary artery after TI thrombolytic therapy in acute myocardial infarction.
- L11 ANSWER 4 OF 23 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
- TI The inactivation of single-chain urokinase-type plasminogen activator by thrombin in a plasma milieu: Effect of thrombomodulin.
- L11 ANSWER 5 OF 23 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.

  \*\*\*Protein\*\*\* \*\*\*C\*\*\* activation by recombinant thrombom \*\*\*C\*\*\* activation by recombinant thrombomodulin in plasma.
- L11 ANSWER 6 OF 23 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
- Role of residue 99 at the S2 subsite of factor Xa and activated \*\*\*protein\*\*\* \*\*\*C\*\*\* in enzyme specificity.
- L11 ANSWER 7 OF 23 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
- Role of the thrombin insertion loop 144-155: Study of thrombin mutations

- W148G, K154E and a thrombin-based synthetic peptide.
- L11 ANSWER 8 OF 23 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
- TI Deficiency of natural anticoagulants.
- L11 ANSWER 9 OF 23 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
  TI Glycosaminoglycan contributions to both \*\*\*protein\*\*\* \*\*\*C\*\*\*
  activation and thrombin inhibition involve a common arginine-rich site in thrombin that includes residues arginine 93, 97, and 101.
- L11 ANSWER 10 OF 23 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.

  Estimation of the possible recognition sites for thrombomodulin, procoagulant, and anticoagulant proteins around the active center of alpha-thrombin.

### => d ti 11-23

- L11 ANSWER 11 OF 23 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. A THROMBIN-BASED PEPTIDE CORRESPONDING TO THE SEQUENCE OF THE THROMBOMODULIN-BINDING SITE BLOCKS THE PROCOAGULANT ACTIVITIES OF THROMBIN.
- L11 ANSWER 12 OF 23 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
  TI AN ACQUIRED \*\*\*ANTITHROMBIN\*\*\* AUTOANTIBODY DIRECTED TOWARD THE
  CATALYTIC CENTER OF THE ENZYME.
- L11 ANSWER 13 OF 23 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
  TI THE ACTIVATION OF BOVINE \*\*\*PROTEIN\*\*\* \*\*\*C\*\*\* BY FACTOR XA.
- L11 ANSWER 14 OF 23 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
  TI MACROMOLECULAR SPECIFICITY DETERMINANTS ON THROMBIN FOR FIBRINOGEN AND THROMBOMODULIN.
- L11 ANSWER 15 OF 23 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
  TI HEMOSTATIC ENZYME GENERATION IN THE BLOOD OF PATIENTS WITH HEREDITARY
  \*\*\*PROTEIN\*\*\* \*\*\*C\*\*\* DEFICIENCY.
- L11 ANSWER 16 OF 23 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
  TI AGING-ASSOCIATED CHANGES IN INDICES OF THROMBIN GENERATION AND

  \*\*\*PROTEIN\*\*\* \*\*\*C\*\*\* ACTIVATION IN HUMANS NORMATIVE AGING STUDY.
- L11 ANSWER 17 OF 23 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
  TI THROMBOMODULIN A COFACTOR OF \*\*\*PROTEIN\*\*\* \*\*\*C\*\*\* ACTIVATION
  ISOLATION CHARACTERIZATION AND APPLICATION FOR LABORATORY MEDICINE.
- L11 ANSWER 18 OF 23 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
  TI THE EFFECT OF \*\*\*ANTITHROMBIN\*\*\* III HEPARIN AND HEPARIN ANTAGONISTS
  ON THE ACTIVITY OF THE \*\*\*THROMBIN\*\*\* \*\*\*THROMBOMODULIN\*\*\*
  COMPLEX.
- L11 ANSWER 19 OF 23 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
  TI THE INFLUENCE OF \*\*\*ANTITHROMBIN\*\*\* III ON THE \*\*\*PROTEIN\*\*\*

  \*\*\*C\*\*\* ACTIVATION AT THE ENDOTHELIAL CELL SURFACE.
- L11 ANSWER 20 OF 23 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. THE EFFECT OF BOVINE THROMBOMODULIN ON THE SPECIFICITY OF BOVINE THROMBIN.
- L11 ANSWER 21 OF 23 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.

  TI INTERACTION OF HUMAN ALPHA THROMBIN AND GAMMA THROMBIN WITH

  \*\*\*ANTITHROMBIN\*\*\* III \*\*\*PROTEIN\*\*\* \*\*\*C\*\*\* AND THROMBOMODULIN.
- L11 ANSWER 22 OF 23 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
  TI INFLUENCE OF \*\*\*PROTEIN\*\*\* \*\*\*C\*\*\* ACTIVATION ON BLOOD COAGULATION
  AND FIBRINOLYSIS IN SQUIRREL MONKEYS SAIMIRI-SCIUREUS.
- L11 ANSWER 23 OF 23 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
  TI A FUNCTIONAL ASSAY OF \*\*\*PROTEIN\*\*\* \*\*\*C\*\*\* IN HUMAN PLASMA.
- => d ab 1-10

- => 11 and 12 L5 12 L1 AND L2
- => d ti 1-12
- LS ANSWER 1 OF 12 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN Conformational and dynamic characterization of the molten globule state of an apomyoglobin mutant with an altered folding pathway.
- L5 ANSWER 2 OF 12 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN TI Identification of a major heparin-binding site in kallistatin.
- L5 ANSWER 3 OF 12 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN Direct energy transfer to study the 3D structure of non-native proteins: AGH complex in molten globule state of apomyoglobin.
- L5 ANSWER 4 OF 12 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN Structural and functional roles of modules in hemoglobin: Substitution of module M4 in hemoglobin subunits.
- L5 ANSWER 5 OF 12 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN Time-resolved fluorescence studies of the molten globule state of apomyoglobin.
- L5 ANSWER 6 OF 12 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN Restoration of phosphorylation-dependent regulation to the skeletal muscle myosin regulatory light chain.
- ANSWER 7 OF 12 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN Unstable alpha-chain hemoglobin variants with factitious beta-thalassemia biosynthetic ratio: Hb Questembert (alpha-131(H14) Ser fwdarw Pro) and Hb Caen (alpha-132(H15) Val fwdarw Gly.
- L5 ANSWER 8 OF 12 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. ON STN ANTIMUTAGENIC ACTIVITY OF SOME SAPONINS ISOLATED FROM CALENDULA-OFFICINALIS L. CALENDULA-ARVENSIS L. AND HEDERA-HELIX L.
- L5 ANSWER 9 OF 12 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. ON STN OXIDATION OF TRYPTOPHANS IN AN INTERHELICAL HYDROPHOBIC CLUSTER OF MYOGLOBIN ALTERS THE THERMODYNAMICS OF THE DENATURATION TRANSITION.
- L5 ANSWER 10 OF 12 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. ON STN THE INTERACTION OF FOLYLPOLYGLUTAMATES WITH DEOXYHEMOGLOBIN IDENTIFICATION OF THE BINDING SITE.
- L5 ANSWER 11 OF 12 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN GROWTH OF CALLUSES DERIVED FROM SHOOT APICAL MERISTEMS OF ADULT AND JUVENILE ENGLISH IVY HEDERA-HELIX.
- L5 ANSWER 12 OF 12 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN STRUCTURE OF HUMAN DEOXY HEMO GLOBIN SPECIFICALLY \*\*\*MODIFIED\*\*\* WITH PYRIDOXAL COMPOUNDS.
- => 13 and 11 L6 84 L3 AND L1
- => d ti 1-20
- ANSWER 1 OF 84 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN Biologically engineered protein-graft-poly(ethylene glycol) hydrogels: A cell adhesive and plasmin-degradable biosynthetic material for tissue repair.
- L6 ANSWER 2 OF 84 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN DNA aptamers as radically new recognition elements for biosensors.
- L6 ANSWER 3 OF 84 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN Tissue injury and the inflammatory response to pediatric cardiac surgery with cardiopulmonary bypass: A descriptive study.

- L6 ANSWER 4 OF 84 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN Different pharmacokinetic and pharmacodynamic properties of tinzaparin measured by external calibration curves in a primate model.
- L6 ANSWER 5 OF 84 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN Hirudin analogs, methods of manufacture thereof and anticoagulant compositions having these as active ingredients.
- L6 ANSWER 6 OF 84 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN Surface modification of polyethylene balloon catheters for local drug delivery.
- L6 ANSWER 7 OF 84 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN Prothrombotic state and elevated levels of plasminogen activator inhibitor-1 in mitral stenosis with and without atrial fibrillation.
- L6 ANSWER 8 OF 84 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN Selection of \$18326 as a new potent and selective boronic acid direct thrombin inhibitor.
- L6 ANSWER 9 OF 84 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN Activation of blood coagulation at heparin-coated surfaces.
- L6 ANSWER 10 OF 84 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN Probing serpin reactive-loop conformations by proteolytic cleavage.
- L6 ANSWER 11 OF 84 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN Synthetic modification of PAN membrane: Biocompatibility and functional characterization.
- L6 ANSWER 12 OF 84 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN Lipophilically \*\*\*modified\*\*\* low molecular mass heparins have improved pharmacodynamic properties.
- L6 ANSWER 13 OF 84 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN Immobilization of a lysine-terminated heparin to polyvinyl alcohol.
- L6 ANSWER 14 OF 84 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN Heparin binding proteins: Contribution to heparin rebound after cardiopulmonary bypass.
- L6 ANSWER 15 OF 84 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. ON STN TI HALISTANOL SULFATES A-E NEW STEROID SULFATES FROM A MARINE SPONGE EPIPOLASIS-SP.
- L6 ANSWER 16 OF 84 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN HEPARINASE II FROM FLAVOBACTERIUM-HEPARINUM HPLC ANALYSIS OF THE SACCHARIDES GENERATED FROM CHEMICALLY \*\*\*MODIFIED\*\*\* HEPARINS.
- L6 ANSWER 17 OF 84 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. ON STN HUMAN ALPHA-1 PROTEINASE INHIBITOR CRYSTAL STRUCTURE ANALYSIS OF 2 CRYSTAL MODIFICATIONS MOLECULAR MODEL AND PRELIMINARY ANALYSIS OF THE IMPLICATIONS FOR FUNCTION.
- L6 ANSWER 18 OF 84 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. ON STN TI PREPARATION OF AN ASYMMETRIC SEMI PERMEABLE MEMBRANE WITH ANTI COAGULANT ACTIVITY.
- L6 ANSWER 19 OF 84 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. ON STN INTERACTIONS OF HUMAN PLATELETS WITH INSOLUBLE ANTI COAGULANT \*\*\*MODIFIED\*\*\* POLY STYRENE RESINS.
- L6 ANSWER 20 OF 84 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. ON STN TI REACTION OF \*\*\*ANTI\*\*\* \*\*\*THROMBIN\*\*\* III WITH THROMBIN BOUND TO THE VASCULAR ENDOTHELIUM ANALYSIS IN A RE CIRCULATING PERFUSED RABBIT HEART PREPARATION.
- => d ti 20-40
- L6 ANSWER 20 OF 84 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. ON STN TI REACTION OF \*\*\*ANTI\*\*\* \*\*\*THROMBIN\*\*\* III WITH THROMBIN BOUND TO THE VASCULAR ENDOTHELIUM ANALYSIS IN A RE CIRCULATING PERFUSED RABBIT HEART PREPARATION.

- L6 ANSWER 21 OF 84 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. ON STN TI ADSORPTION OF PURIFIED THROMBIN OR \*\*\*ANTI\*\*\* \*\*\*THROMBIN\*\*\* III FOR 2 INSOLUBLE ANTI COAGULANT POLY STYRENE DERIVATIVES 2. COMPETITION WITH THE OTHER PLASMA PROTEINS.
- L6 ANSWER 22 OF 84 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN CHARACTERIZATION OF THE THROMBIN INDUCED CONTRACTION OF VASCULAR SMOOTH MUSCLE.
- L6 ANSWER 23 OF 84 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. ON STN TI RECEPTOR MEDIATED CHEMO TACTIC RESPONSE OF A MACROPHAGE CELL LINE J-774 TO THROMBIN.
- L6 ANSWER 24 OF 84 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN EFFECTS OF ENZYMATIC DEGLYCOSYLATION ON THE BIOLOGICAL ACTIVITIES OF HUMAN THROMBIN AND \*\*\*ANTI\*\*\* \*\*\*THROMBIN\*\*\* .
- L6 ANSWER 25 OF 84 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. ON STN TI PROPERTIES OF \*\*\*ANTI\*\*\* \*\*\*THROMBIN\*\*\* THROMBIN COMPLEX FORMED IN THE PRESENCE AND IN THE ABSENCE OF HEPARIN.
- L6 ANSWER 26 OF 84 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN MONOCYTE CHEMO TAXIS STIMULATION BY SPECIFIC EXOSITE REGION IN THROMBIN EC-3.4.21.5.
- L6 ANSWER 27 OF 84 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. ON STN
  TI COMPARISON OF IMMUNOCHEMICAL AND BIOLOGICAL PROPERTIES OF HUMAN
  \*\*\*ANTI\*\*\* \*\*\*THROMBIN\*\*\* DURING BLOOD CLOTTING AND UPON INTERACTION
  WITH EXOGENOUS THROMBIN.
- L6 ANSWER 28 OF 84 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN 

  \*\*\*MODIFIED\*\*\* LEVELS OF \*\*\*ANTI\*\*\* \*\*\*THROMBIN\*\*\* III AND 
  CIRCULATING \*\*\*ANTI\*\*\* \*\*\*THROMBIN\*\*\* III COMPLEXES IN PATIENTS 
  WITH ARGENTINE HEMORRHAGIC FEVER.
- L6 ANSWER 29 OF 84 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. ON STN
  TI \*\*\*ANTI\*\*\* \*\*\*THROMBIN\*\*\* III BINDING TO SC-5B-9 ATTACK COMPLEXES
  OF HUMAN COMPLEMENT DISSOCIATION OF A \*\*\*MODIFIED\*\*\* \*\*\*ANTI\*\*\*

  \*\*\*THROMBIN\*\*\* III DERIVATIVE SUBSEQUENT TO COMPLEX FORMATION.
- L6 ANSWER 30 OF 84 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN TI MECHANISM OF THROMBIN BINDING TO ENDOTHELIAL CELLS.
- L6 ANSWER 31 OF 84 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN PRODUCTION IN-VITRO AND PROPERTIES OF A \*\*\*MODIFIED\*\*\* FORM OF BOVINE \*\*\*ANTI\*\*\* \*\*\*THROMBIN\*\*\* CLEAVED AT THE ACTIVE SITE BY THROMBIN.
- L6 ANSWER 32 OF 84 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN TI MECHANISM OF INACTIVATION OF TRYPSIN BY \*\*\*ANTI\*\*\* \*\*\*THROMBIN\*\*\*
- L6 ANSWER 33 OF 84 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. ON STN TI INTERACTIONS OF ANTI COAGULANT INSOLUBLE \*\*\*MODIFIED\*\*\* POLY STYRENE RESINS WITH PLASMATIC PROTEINS.
- L6 ANSWER 34 OF 84 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN SUBSTITUTION THERAPY WITH AN \*\*\*ANTI\*\*\* \*\*\*THROMBIN\*\*\* III CONCENTRATE IN SHOCK AND DISSEMINATED INTRA VASCULAR COAGULATION.
- L6 ANSWER 35 OF 84 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN TI SUBSTITUTION OF \*\*\*ANTI\*\*\* \*\*\*THROMBIN\*\*\* III IN SHOCK PATIENTS.
- L6 ANSWER 36 OF 84 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. ON STN PREPARATION CHARACTERIZATION AND TURNOVER PROPERTIES OF HEPARIN

  \*\*\*ANTI\*\*\* \*\*\*THROMBIN\*\*\* III COMPLEXES STABILIZED BY COVALENT BONDS.
- L6 ANSWER 37 OF 84 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. ON STN HEPARIN TREATMENT OF MICRO ANGIOPATHIC HEMOLYTIC ANEMIA ASSOCIATED WITH AN EXPERIMENTAL TUMOR.
- L6 ANSWER 38 OF 84 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. ON STN TI REACTION OF \*\*\*ANTI\*\*\* \*\*\*THROMBIN\*\*\* WITH PROTEASES NATURE OF THE REACTION WITH TRYPSIN.
- L6 ANSWER 39 OF 84 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN TI DISTINCTION OF 2 PATHOLOGIC \*\*\*ANTI\*\*\* \*\*\*THROMBIN\*\*\* II MOLECULES

\*\*\*ANTI\*\*\* \*\*\*THROMBIN\*\*\* III AALBORG AND \*\*\*ANTI\*\*\* \*\*\*THROMBIN\*\*\* III BUDAPEST.

ANSWER 40 OF 84 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN THE ACTIVE SITE OF \*\*\*ANTI\*\*\* \*\*\*THROMBIN\*\*\* RELEASE OF THE SAME L6 TI PROTEOLYTICALLY CLEAVED FORM OF THE INHIBITOR FROM COMPLEXES WITH FACTOR-IXA FACTOR X-A THROMBIN.

=> naturally(W)occurring 46572 NATURALLY 115488 OCCURRING 2 OCCURRINGS 115490 OCCURRING (OCCURRING OR OCCURRINGS)

L7 23135 NATURALLY(W)OCCURRING

=> modified or mutated or substituted 159635 MODIFIED 1 MODIFIEDS

159635 MODIFIED (MODIFIED OR MODIFIEDS)

20929 MUTATED 61452 SUBSTITUTED 1 SUBSTITUTEDS 61453 SUBSTITUTED

(SUBSTITUTED OR SUBSTITUTEDS)

L8 238888 MODIFIED OR MUTATED OR SUBSTITUTED

17 and 18 L9 1140 L7 AND L8

=> protein or polypeptide 1312730 PROTEIN 497420 PROTEINS 1513282 PROTEIN

(PROTEIN OR PROTEINS)

72907 POLYPEPTIDE 35764 POLYPEPTIDES 95878 POLYPEPTIDE

(POLYPEPTIDE OR POLYPEPTIDES)

1557524 PROTEIN OR POLYPEPTIDE L10

=> 110 and 19 352 L10 AND L9 L11

=> d ti 1-20

- L11 ANSWER 1 OF 352 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN \*\*\*Naturally\*\*\* - \*\*\*Occurring\*\*\* DNA Topoisomerase II Inhibitors TT Induce Formation of DNA-DNA Topoisomerase II Complexes in Hematopoietic Cell Lines.
- L11 ANSWER 2 OF 352 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN Low-density lipoprotein and its effect on human blood platelets.
- ANSWER 3 OF 352 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN L11 Structural and functional role of helices I and II in rhodopsin. A novel TI interplay evidenced by mutations at GLY-51 and GLY-89 in the transmembrane domain.
- ANSWER 4 OF 352 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN MICOA, a novel metastasis-associated \*\*\*protein\*\*\* 1 (MTA1) L11 TI \*\*\*protein\*\*\* coactivator, regulates estrogen interacting receptor-alpha transactivation functions.
- ANSWER 5 OF 352 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN MODIP revisited: Re-evaluation and refinement of an automated procedure L11 TI for modeling of disulfide bonds in \*\*\*proteins\*\*\*
- L11 ANSWER 6 OF 352 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN \*\*\*modified\*\*\* TI Genetically plants for improved trace element nutrition.
- L11 ANSWER 7 OF 352 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN HOMOLOGOUS AND HETEROLOGOUS DESENSITIZATION OF A TRIPLE POINT MUTANT OF

THE MURINE P2Y2 RECEPTOR IN 1321N1 HUMAN ASTROCYTOMA CELLS.

- L11 ANSWER 8 OF 352 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN TI Rumen manipulation to improve animal productivity.
- L11 ANSWER 9 OF 352 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN TI Cross-linked polymer compositions and methods for their use.
- L11 ANSWER 10 OF 352 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN WW domain sequence activity relationships identified using ligand recognition propensities of 42 WW domains.
- L11 ANSWER 11 OF 352 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN Evaluation of a modular strategy for the construction of novel polydactyl zinc finger DNA-binding \*\*\*proteins\*\*\*
- L11 ANSWER 12 OF 352 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN Mechanism of Janus kinase 3-catalyzed phosphorylation of a Janus kinase 1 activation loop peptide.
- L11 ANSWER 13 OF 352 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN Effect of mastitis and related-germ on milk yield and composition during \*\*\*naturally\*\*\* \*\*\*occurring\*\*\* udder infections in dairy cows.
- L11 ANSWER 14 OF 352 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN Immunoaffinity removal of xenoreactive antibodies using \*\*\*modified\*\*\* dialysis or microfiltration membranes.
- L11 ANSWER 15 OF 352 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN TI Complex-forming \*\*\*proteins\*\*\* .
- L11 ANSWER 16 OF 352 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN TI A \*\*\*naturally\*\*\* \*\*\*occurring\*\*\* point mutation alters ERalpha crosstalk with regulatory signaling pathways.
- L11 ANSWER 17 OF 352 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN Taurine as a constituent of mitochondrial tRNAs: New insights into the functions of taurine and human mitochondrial diseases.
- L11 ANSWER 18 OF 352 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN TI Gene delivery to the eye using adeno-associated viral vectors.
- L11 ANSWER 19 OF 352 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN TI A \*\*\*naturally\*\*\* \*\*\*occurring\*\*\* mutation in the SLC21A6 gene causing impaired membrane localization of the hepatocyte uptake transporter.
- L11 ANSWER 20 OF 352 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN TI A novel low-molecular-mass dual-specificity phosphatase, LDP-2, with a \*\*\*naturally\*\*\* \*\*\*occurring\*\*\* substitution that affects substrate specificity.

# => d ti 21-41

- L11 ANSWER 21 OF 352 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN The jaagsiekte sheep retrovirus envelope gene induces transformation of the avian fibroblast cell line DF-1 but does not require a conserved SH2 binding domain.
- L11 ANSWER 22 OF 352 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN TI Immunosuppressive effects of glucosamine.
- L11 ANSWER 23 OF 352 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN Requirement for IscS in biosynthesis of all thionucleosides in Escherichia coli.
- L11 ANSWER 24 OF 352 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN TI Charging of a \*\*\*naturally\*\*\* \*\*\*occurring\*\*\* amber tRNA with lysine by a dedicated aminoacyl-tRNA synthetase from Methanosarcina barkeri.
- L11 ANSWER 25 OF 352 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN Identification and functional analysis of a \*\*\*naturally\*\*\*

  \*\*\*occurring\*\*\* E89K mutation in the ABCA1 gene of the WHAM chicken.

- L11 ANSWER 26 OF 352 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN Preferential induction of IL-10 in APC correlates with a switch from Th1 to Th2 response following infection with a low pathogenic variant of Theiler's virus.
- L11 ANSWER 27 OF 352 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN Structure of domain III of the blood-stage malaria vaccine candidate, Plasmodium falciparum apical membrane antigen 1 (AMA1.
- L11 ANSWER 28 OF 352 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN The influence of intramolecular bridges on the dynamics of a \*\*\*protein\*\*\* folding reaction.
- L11 ANSWER 29 OF 352 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN A copper-responsive transcription factor, CRF1, mediates copper and cadmium resistance in Yarrowia lipolytica.
- L11 ANSWER 30 OF 352 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN Conserved helix 7 tyrosine acts as a multistate conformational switch in the 5HT2C receptor: Identification of a novel "locked-on" phenotype and double revertant mutations.
- L11 ANSWER 31 OF 352 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN TI Preservation and fermentation: Past, present and future.
- L11 ANSWER 32 OF 352 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN Antimetabolite incorporation into DNA: Structural and thermodynamic basis for anticancer activity.
- L11 ANSWER 33 OF 352 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN Lack of pseudouridine 38/39 in the anticodon arm of yeast cytoplasmic tRNA decreases in vivo recoding efficiency.
- L11 ANSWER 34 OF 352 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN TI Recombinant MVA virus, and the use thereof.
- L11 ANSWER 35 OF 352 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN THE human minisatellites MS1, MS32, MS205 and CEB1 integrated into the yeast genome exhibit different degrees of mitotic instability but are all stabilised by RAD27.
- L11 ANSWER 36 OF 352 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN Differentiation of prion \*\*\*protein\*\*\* glycoforms from \*\*\*naturally\*\*\* \*\*\*occurring\*\*\* sheep scrapie, sheep-passaged scrapie strains (CH1641 and SSBP1), bovine spongiform encephalopathy (BSE) cases and Romney and Cheviot breed sheep experimentally inoculated with BSE using two monoclonal antibodies.
- L11 ANSWER 37 OF 352 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN
  TI A semisynthetic glutathione peroxidase with high catalytic efficiency:
  Selenoglutathione transferase.
- L11 ANSWER 38 OF 352 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN Designed transcription factors as structural, functional and therapeutic probes of chromatin in vivo. Fourth in review series on chromatin dynamics.
- L11 ANSWER 39 OF 352 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN Sealing or filling tissue defects using polyfunctional crosslinking agents and \*\*\*protein\*\*\* polymers.
- L11 ANSWER 40 OF 352 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN Mutation of COOH-terminal lysines in overexpressed alphab-crystallin abrogates ischemic protection in cardiomyocytes.
- L11 ANSWER 41 OF 352 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN TI Genetic stabilization by p53 involves growth regulatory and repair pathways.
- => di 42=62 '62' NOT A VALID FIELD CODE L12 0 DI 42=62

115488 OCCURRING 2 OCCURRINGS 115490 OCCURRING (OCCURRING OR OCCURRINGS) L13 23135 NATURALLY(W)OCCURRING => naturally(W)occurring(w)mutation 46572 NATURALLY 115488 OCCURRING 2 OCCURRINGS 115490 OCCURRING (OCCURRING OR OCCURRINGS) **159179 MUTATION** 129297 MUTATIONS **231378 MUTATION** (MUTATION OR MUTATIONS) L14 317 NATURALLY(W)OCCURRING(W)MUTATION => protein or polypeptide 1312730 PROTEIN 497420 PROTEINS 1513282 PROTEIN (PROTEIN OR PROTEINS) 72907 POLYPEPTIDE 35764 POLYPEPTIDES 95878 POLYPEPTIDE (POLYPEPTIDE OR POLYPEPTIDES) 1557524 PROTEIN OR POLYPEPTIDE L15 => 114 and 115 161 L14 AND L15 L16 => d ti 1-20 mutation of chemokine receptor CCR5.

- L16 ANSWER 1 OF 161 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN Cytokine response to endotoxin in individuals heterozygous for the DELTA32
- L16 ANSWER 2 OF 161 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN A Conserved Region of Human Vitamin K-Dependent Carboxylase between TI Residues 393-404 Is Important for Its Interaction with the Glutamate Substrate.
- L16 ANSWER 3 OF 161 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN Structural and functional role of helices I and II in rhodopsin. A novel TT interplay evidenced by mutations at GLY-51 and GLY-89 in the transmembrane domain.
- ANSWER 4 OF 161 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN MICOA, a novel metastasis-associated \*\*\*protein\*\*\* 1 (MTA1) interacting \*\*\*protein\*\*\* coactivator, regulates estrogen L16 TT receptor-alpha transactivation functions.
- L16 ANSWER 5 OF 161 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN MISSENSE MUTATIONS IN INSULIN - DEGRADING ENZYME ASSOCIATED WITH A DIABETIC PHENOTYPE IN RATS DECREASE Abeta DEGRADATION IN BRAIN.
- L16 ANSWER 6 OF 161 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN TI A \*\*\*naturally\*\*\* \*\*\*occurring\*\*\* \*\*\*mutation\*\*\* in an ATP-binding domain of the recombination repair gene XRCC3 ablates its function without causing cancer susceptibility.
- L16 ANSWER 7 OF 161 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN SF1 in the development of the adrenal gland and gonads.
- L16 ANSWER 8 OF 161 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN A new clinical condition linked to a novel mutation in lamins A and C with TI generalized lipoatrophy, insulin-resistant diabetes, disseminated Teukomelanodermic papules, liver steatosis, and cardiomyopathy.
- L16 ANSWER 9 OF 161 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN Biosynthesis, glycosylation, and enzymatic processing in vivo of human tripeptidyl-peptidase I.
- L16 ANSWER 10 OF 161 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN Characterisation of a \*\*\*naturally\*\*\* \*\*\*occurring\*\*\*

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***mutation*** (L107I) in the HNF1alpha (MODY3) gene.
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- L16 ANSWER 11 OF 161 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN TI Two \*\*\*naturally\*\*\* \*\*\*occurring\*\*\* \*\*\*mutations\*\*\* on FVII gene (\$363I-W364C) altering intrinsic catalytic activity.
- L16 ANSWER 12 OF 161 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN TI A \*\*\*naturally\*\*\* \*\*\*occurring\*\*\* \*\*\*mutation\*\*\* in the SLC21A6 gene causing impaired membrane localization of the hepatocyte uptake transporter.
- L16 ANSWER 13 OF 161 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN The osteopetrotic mutation toothless (tl) is a loss-of-function frameshift mutation in the rat Csf1 gene: Evidence of a crucial role for CSF-1 in osteoclastogenesis and endochondral ossification.
- L16 ANSWER 14 OF 161 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN Structure-function analysis of the glucose-6-phosphate transporter deficient in glycogen storage disease type Ib.
- L16 ANSWER 15 OF 161 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN Structural aspects of luteinizing hormone receptor: Information from molecular modeling and mutagenesis.
- L16 ANSWER 16 OF 161 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN TI \*\*\*Naturally\*\*\* \*\*\*occurring\*\*\* \*\*\*mutations\*\*\* near precore translational initiation site reduce hepatitis B E antigen production.
- L16 ANSWER 17 OF 161 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN TI A novel mutation in helix 12 of the vitamin D receptor impairs coactivator interaction and causes hereditary 1,25-dihydroxyvitamin D-resistant rickets without alopecia.
- L16 ANSWER 18 OF 161 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN Structure of domain III of the blood-stage malaria vaccine candidate, Plasmodium falciparum apical membrane antigen 1 (AMA1.
- L16 ANSWER 19 OF 161 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN TI \*\*\*Naturally\*\*\* \*\*\*occurring\*\*\* \*\*\*mutations\*\*\* at the acetylcholine receptor binding site independently alter ACh binding and channel gating.
- L16 ANSWER 20 OF 161 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN TI \*\*\*Naturally\*\*\* \*\*\*occurring\*\*\* \*\*\*mutations\*\*\* in the largest extracellular loops of ABCA1 can disrupt its direct interaction with apolipoprotein A-I.

RECORDS LAST ADDED: 30 July 2003 (20030730/ED)

=> anti-thrombin
449960 ANTI
13 ANTIS
449968 ANTI
(ANTI OR ANTIS)
33031 THROMBIN
164 THROMBINS
33063 THROMBIN
(THROMBIN OR THROMBINS)
L2 2764 ANTI-THROMBIN

(ANTI-THROMBIN (ANTI(W)THROMBIN)

=> 11 and 12 L3 20 L1 AND L2

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=> mutated or mutation
         20929 MUTATED
        159179 MUTATION
        129297 MUTATIONS
        231378 MUTATION
                  (MUTATION OR MUTATIONS)
        241056 MUTATED OR MUTATION
L1
=> anti-thrombin
        449960 ANTI
            13 ANTIS
        449968 ANTI
                  (ANTI OR ANTIS)
         33031 THROMBIN
           164 THROMBINS
         33063 THROMBIN
                 (THROMBIN OR THROMBINS)
          2764 ANTI-THROMBIN
L2
                 (ANTI(W)THROMBIN)
=> 11 and 12
            20 L1 AND L2
```

=> d ti 1-20

- L3 ANSWER 1 OF 20 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN TI Elevated factor VIII as a cause of thrombophilia.
- ANSWER 2 OF 20 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN Prevalence of hypercoagulable disorders in potential kidney transplant recipients.
- L3 ANSWER 3 OF 20 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN Acquired activated protein C resistance is associated with the co-existence of anti-prothrombin antibodies and lupus anticoagulant activity in patients with systemic lupus erythematosus.
- L3 ANSWER 4 OF 20 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN TI Genetic thrombophilia and peri-partum liver failure.
- ANSWER 5 OF 20 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN The importance of procoagulant screening in patients with inflammatory bowel disease complicated by venous thrombosis.
- L3 ANSWER 6 OF 20 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN Construction, expression, and characterization of recombinant hirudin in Escherichia coli.
- L3 ANSWER 7 OF 20 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN Hereditary thrombophilia as a cause of Budd-Chiari syndrome: A study from western India.
- ANSWER 8 OF 20 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN The risk of recurrent venous thromboembolism among heterozygous carriers of the G20210A prothrombin gene \*\*\*mutation\*\*\*.
- ANSWER 9 OF 20 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN The importance of procoagulant screening in patients with inflammatory bowel disease complicated by venous thrombosis.
- L3 ANSWER 10 OF 20 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN Characterization of a novel autosomal dominant bleeding disorder in a large kindred from east Texas.
- L3 ANSWER 11 OF 20 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN TI Associated prothrombotic abnormalities in patients with inflammatory bowel disease.
- ANSWER 12 OF 20 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN Hypercoagulable thrombophilic defects and hyperhomocysteinemia in patients with recurrent pregnancy loss.
- L3 ANSWER 13 OF 20 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN Abdominal venous thrombosis in neonates and infants: Role of prothrombotic risk factors: A multicentre case-control study.

- L3 ANSWER 14 OF 20 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN A hypofibrinolytic state in overweight patients with cerebral venous thrombosis and isolated intracranial hypertension.
- ANSWER 15 OF 20 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN A phenylalanine 402 to leucine \*\*\*mutation\*\*\* is responsible for a stable inactive conformation of antithrombin.
- L3 ANSWER 16 OF 20 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN TI A NOVEL MISSENSE \*\*\*MUTATION\*\*\* IN THE ANTITHROMBIN III GENE SER349-PRO CAUSING RECURRENT VENOUS THROMBOSIS.
- L3 ANSWER 17 OF 20 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN SITE-DIRECTED MUTAGENESIS OF ARGININE 103 AND LYSINE 185 IN THE PROPOSED GLYCOSAMINOGLYCAN-BINDING SITE OF HEPARIN COFACTOR II.
- L3 ANSWER 18 OF 20 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN

  \*\*\*ANTI\*\*\* \*\*\*THROMBIN\*\*\* III-TOYAMA REPLACEMENT OF ARGININE 47 BY

  CYSTEINE IN HEREDITARY ABNORMAL \*\*\*ANTI\*\*\* \*\*\*THROMBIN\*\*\* III THAT

  LACKS HEPARIN BINDING ABILITY.
- L3 ANSWER 19 OF 20 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN TI \*\*\*MUTATION\*\*\* OF ANTI TRYPSIN TO \*\*\*ANTI\*\*\* \*\*\*THROMBIN\*\*\* ALPHA-1 ANTI TRYPSIN PITTSBURGH A FATAL BLEEDING DISORDER.
- ANSWER 20 OF 20 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. ON STN CARBOXY TERMINAL FRAGMENT OF HUMAN ALPHA-1 ANTI TRYPSIN FROM HYDROXYLAMINE CLEAVAGE HOMOLOGY WITH \*\*\*ANTI\*\*\* \*\*\*THROMBIN\*\*\* III.
- => d all 18,16,15

RECORDS LAST ADDED: 30 July 2003 (20030730/ED)

=> mutation()analysis and polypeptide 159179 MUTATION 129297 MUTATIONS **231378 MUTATION** (MUTATION OR MUTATIONS) 1282130 ANALYSIS 9 ANALYSISES 181186 ANALYSES 1395433 ANALYSIS (ANALYSIS OR ANALYSISES OR ANALYSES) 4851 MUTATION(W)ANALYSIS 72907 POLYPEPTIDE 35764 POLYPEPTIDES 95878 POLYPEPTIDE (POLYPEPTIDE OR POLYPEPTIDES) L1 66 MUTATION(W) ANALYSIS AND POLYPEPTIDE

- => d ti 1-20
- L1 ANSWER 1 OF 66 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN TI Xanthophyll binding sites of the CP29 (Lhcb4) subunit of higher plant Photosystem II investigated by domain swapping and \*\*\*mutation\*\*\*

  \*\*\*analysis\*\*\*
- L1 ANSWER 2 OF 66 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN Episodic bioavailability of environmental mercury: Implications for biotechnological control of mercury pollution.
- L1 ANSWER 3 OF 66 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN CDNA cloning, expression profile and genomic structure of a novel human transcript on chromosome 10q24, and its analyses as a candidate gene for infantile onset spinocerebellar ataxia.
- L1 ANSWER 4 OF 66 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN Discrimination between agonists and antagonists by the alpha-amino-3-hydroxy-5-methyl-4-isoxazole propionic acid-selective glutamate receptor. A \*\*\*mutation\*\*\* \*\*\*analysis\*\*\* of the ligand-binding domain of GluR-D subunit.
- L1 ANSWER 5 OF 66 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN

- TI Physical mapping and characterization of the human Na,K-ATPase isoform, ATP1A4.
- L1 ANSWER 6 OF 66 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN Chromophore organization in the higher-plant photosystem II antenna
- TI Chromophore organization in the higher-plant photosystem II antenna protein CP26.
- L1 ANSWER 7 OF 66 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN Characterization and identification of promoter elements in the mouse COX17 gene.
- L1 ANSWER 8 OF 66 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN
  TI \*\*\*Mutation\*\*\* \*\*\*analysis\*\*\* of thyroid peroxidase gene in
  Chinese patients with total iodide organification defect: Identification
  of five novel mutations.
- L1 ANSWER 9 OF 66 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN Versican interacts with fibrillin-1 and links extracellular microfibrils to other connective tissue networks.
- ANSWER 10 OF 66 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN Apparent genotype-phenotype correlation in childhood, adolescent, and adult Chediak-Higashi syndrome.
- ANSWER 11 OF 66 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN Deletion of the cytoplasmatic domain of BP180/collagen XVII causes a phenotype with predominant features of epidermolysis bullosa simplex.
- L1 ANSWER 12 OF 66 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN Identification of a trafficking determinant localized to the Kv1 potassium channel pore.
- L1 ANSWER 13 OF 66 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN Epidermolysis bullosa with congenital pyloric atresia: Novel mutations in the beta4 integrin gene (ITGB4) and genotype/phenotype correlations.
- L1 ANSWER 14 OF 66 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN Structure/function studies on Ost4p, a subunit of oligosaccharyl transferase.
- ANSWER 15 OF 66 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN The complete form of X-linked congenital stationary night blindness is caused by mutations in a gene encoding a leucine-rich repeat protein.
- ANSWER 16 OF 66 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN trans-Acting mutations in loci other than kdpDE that affect kdp operon regulation in Escherichia coli: Effects of cytoplasmic thiol oxidation status and nucleoid protein H-NS on kdp expression.
- L1 ANSWER 17 OF 66 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN A novel CFTR frame-shift mutation, 935delA, in two Hispanic cystic fibrosis patients.
- L1 ANSWER 18 OF 66 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN Identification of functionally important domains in the N-terminal region of telomerase reverse transcriptase.
- L1 ANSWER 19 OF 66 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN TI A new approach to gene \*\*\*mutation\*\*\* \*\*\*analysis\*\*\* using "GFP-display.
- ANSWER 20 OF 66 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN Genetic studies of three Japanese patients with p22-phox-deficient chronic granulomatous disease: Detection of a possible common mutant CYBA allele in Japan and a genotype-phenotype correlation in these patients.
- => d ab 19,18,15,13
- L1 ANSWER 19 OF 66 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN

  AB The unique behavior of green fluorescent protein (GFP) on SDS-PAGE was applied to the detection of a single amino acid substitution in GFP-tagged 

  \*\*\*polypeptides\*\*\* . This simple detection method using SDS/urea gels was designated GFP-display. The N-terminal 18 or 37 amino acids of K-Ras was used as a model GFP-tagged 

  \*\*\*polypeptide\*\*\* . K-ras exon 1 was fused to a gfp cDNA at each end and expressed in Escherichia coli. Amino acid

number 12 of K-Ras (wild type; Gly) was changed to Ser, Arg, Cys, Asp, Ala, or Val, and the mobility shift of the greenish fluorescent bands in the SDS/urea gel was analyzed. These mutants were easily detected by GFP-display; however, detection depended strongly on the urea concentration and electrophoresis temperature. Subsequently, GFP-display was applied to the 36 amino acids encoding human p53 exon 7. Amino acid number 248 (wild type; Arg) was changed to Gly, Trp, Gln, Pro, or Leu, and similar mobility shifts were observed. GFP-display could be coupled with an in vitro translation system. Fluorescent active GFP and GFP-Ras fusion proteins were synthesized within a few hours. GFP-display shows potential as a modern approach to gene \*\*\*mutation\*\*\* \*\*\*analysis\*\*\* at the protein level, and is a useful method for protein engineering studies.

- ANSWER 18 OF 66 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN Telomerase is a ribonucleoprotein reverse transcriptase responsible for the maintenance of one strand of telomere terminal repeats. The key protein subunit of the telomerase complex, known as TERT, possesses reverse transcriptase-like motifs that presumably mediate catalysis. These motifs are located in the C-terminal region of the \*\*\*polypeptide\*\*\*\*. Hidden Markov model-based sequence analysis revealed in the N-terminal region of all TERTs the presence of four conserved motifs, named GQ, CP, QFP, and T. Point \*\*\*mutation\*\*\* \*\*\*analysis\*\*\* of conserved residues confirmed the functional importance of the GQ motif. In addition, the distinct phenotypes of the GQ mutants suggest that this motif may play at least two distinct functions in telomere maintenance. Deletion analysis indicates that even the most N-terminal nonconserved region of yeast TERT (N region) is required for telomerase function. This N region exhibits a nonspecific nucleic acid binding activity that probably reflects an important physiologic function. Expression studies of various portions of the yeast TERT in Escherichia coli suggest that the N region and the GQ motif together may constitute a stable domain. We propose that all TERTs may have a bipartite organization, with an N-GQ domain connected to the other motifs through a flexible linker.
- ANSWER 15 OF 66 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN X-linked congenital stationary night blindness (XLCSNB) is characterized by impaired scotopic vision with associated ocular symptoms such as myopia, hyperopia, nystagmus and reduced visual acuity. Genetic mapping in families with XLCSNB revealed two different loci on the proximal short arm of the X chromosome. These two genetic subtypes can be distinguished on the basis of electroretinogram (ERG) responses and psychophysical testing as a complete (CSNB1) and an incomplete (CSNB2) form. The CSNB1 locus has been mapped to a 5-CM linkage interval in Xp11.4 (refs 2,5-7). Here we construct and analyse a contig between the markers DXS993 and DXS228, leading to the identification of a new gene mutated in CSNB1 patients. It is partially deleted in 3 families and \*\*\*mutation\*\*\* \*\*\*analysis\*\*\* in a further 21 families detected another 13 different mutations. This gene, designated NYX, encodes a protein of 481 amino acids (nyctalopin) and is expressed at low levels in tissues including retina, brain, testis and muscle. The predicted \*\*\*polypeptide\*\*\* is a glycosylphosphatidylinositol (GPI)-anchored extracellular protein with 11 typical and 2 cysteine-rich, leucine-rich repeats (LRRs). This motif is important for protein-protein interactions and members of the LRR superfamily are involved in cell adhesion and axon guidance. Future functional analysis of nyctalopin might therefore give insight into the fine-regulation of cell-cell contacts in the retina.
- ANSWER 13 OF 66 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN Epidermolysis bullosa with pyloric atresia (EB-PA: OMIM 226730), also known as Carmi syndrome, is a rare autosomal recessive genodermatosis that manifests with neonatal mucocutaneous fragility associated with congenital pyloric atresia. The disease is frequently lethal within the first year, but nonlethal cases have been reported. Mutations in the genes encoding subunit \*\*\*polypeptides\*\*\* of the alpha6beta4 integrin (ITGA6 and ITGB4) have been demonstrated in EB-PA patients. To extend the repertoire of mutations and to identify genotype-phenotype correlations, we examined seven new EB-PA families, four with lethal and three with nonlethal disease variants. DNA from patients was screened for mutations using heteroduplex analysis followed by nucleotide sequencing of PCR products spanning all beta4 integrin-coding sequences. \*\*\*Mutation\*\*\*

  \*\*\*analysis\*\*\* disclosed 12 distinct mutations, 11 of them novel. Four mutations predicted a premature termination codon as a result of nonsense

mutations predicted a premature termination codon as a result of nonsense mutations or small out-of-frame insertions or deletions, whereas seven were missense mutations. This brings the total number of distinct ITGB4 mutations to 33. The mutation database indicates that premature termination codons are associated predominantly with the lethal EB-PA

variants, whereas missense mutations are more prevalent in nonlethal forms. However, the consequences of the missense mutations are position dependent, and substitutions of highly conserved amino acids may have lethal consequences. In general, indirect immunofluorescence studies of affected skin revealed negative staining for beta4 integrin in lethal cases and positive, but attenuated, staining in nonlethal cases and correlated with clinical phenotype. The data on specific mutations in EB-PA patients allows prenatal testing and preimplantation genetic diagnosis in families at risk.

# => d ti 21-41

- ANSWER 21 OF 66 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN A novel mutation in the helix termination motif of keratin K12 in a US family with Meesmann corneal dystrophy.
- L1 ANSWER 22 OF 66 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN Mutation screening of the entire coding regions of the TSC1 and the TSC2 gene with the protein truncation test (PTT) identifies frequent splicing defects.
- L1 ANSWER 23 OF 66 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN Alpha-tectorin involvement in hearing disabilities: One gene two phenotypes.
- ANSWER 24 OF 66 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN Evaluation of the protein truncation test and mutation detection in the NF1 gene: Mutational analysis of 15 known and 40 unknown mutations.
- ANSWER 25 OF 66 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN The neoxanthin binding site of the major light harvesting complex (LHCII) from higher plants.
- ANSWER 26 OF 66 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN Identification of a mutation cluster in mevalonate kinase deficiency, including a new mutation in a patient of Mennonite ancestry.
- ANSWER 27 OF 66 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN Familial porphyria cutanea tarda: Characterization of seven novel uroporphyrinogen decarboxylase mutations and frequency of common hemochromatosis alleles.
- ANSWER 28 OF 66 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN Structural elements in domain IV that influence biophysical and pharmacological properties of human alphala-containing high-voltage-activated calcium channels.
- L1 ANSWER 29 OF 66 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN THE mitochondrial genome: Structure, transcription, translation and replication.
- ANSWER 30 OF 66 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN Proliferating cell nuclear antigen and transforming growth factor alpha expression as biomarkers of colon cancer chemoprevention in rats.
- ANSWER 31 OF 66 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN Cloning, mapping, expression, function, and \*\*\*mutation\*\*\*

  \*\*\*analyses\*\*\* of the human ortholog of the hamster putative tumor suppressor gene doc-1.
- L1 ANSWER 32 OF 66 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN Pheochromocytoma in von Hippel-Lindau disease: Clinical presentation and \*\*\*mutation\*\*\* \*\*\*analysis\*\*\* in a large, multigenerational kindred.
- ANSWER 33 OF 66 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN Cloning and nucleotide sequence of the DNA gyrase gyrA gene from Serratia marcescens and characterization of mutations in gyrA of quinolone-resistant clinical isolates.
- ANSWER 34 OF 66 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN Bipartite nuclear localization signals in the C terminus of human topoisomerase IIalpha.
- L1 ANSWER 35 OF 66 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN Potato leafroll virus binds to the equatorial domain of the aphid

endosymbiotic groEL homolog.

- L1 ANSWER 36 OF 66 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN
- TI How do VIP, PACAP and related peptides interact with receptors.
- L1 ANSWER 37 OF 66 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN Isolation, mapping, and \*\*\*mutation\*\*\* \*\*\*analysis\*\*\* of a human cDNA homologous to the doc-I gene of the Chinese hamster, a candidate tumor suppressor for oral cancer.
- L1 ANSWER 38 OF 66 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN Gene cloning and regulation of gene expression of the puc operon from
- Rhodovulum sulfidophilum.
- L1 ANSWER 39 OF 66 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN HPV16 E6 oncoprotein stimulates the transforming growth factor-beta-1 promoter in fibroblasts through a specific GC-rich sequence.
- L1 ANSWER 40 OF 66 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN
- TI Molecular analysis of the replication elements of the broad-host-range RepA/C replicon.
- ANSWER 41 OF 66 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN Identification and \*\*\*mutation\*\*\* \*\*\*analysis\*\*\* of the complete gene for Chediak-Higashi syndrome.
- => d ti 41-66
- ANSWER 41 OF 66 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN Identification and \*\*\*mutation\*\*\* \*\*\*analysis\*\*\* of the complete gene for Chediak-Higashi syndrome.
- L1 ANSWER 42 OF 66 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN X-ray structure analysis of an engineered Fe-superoxide dismutase Gly-Ala mutant with significantly reduced stability to denaturant.
- L1 ANSWER 43 OF 66 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN Localization of the binding site for the monocyte immunoglobulin (Ig) A-Fc receptor (CD89) to the domain boundary between C-alpha-2 and C-alpha-3 in human IgA1.
- ANSWER 44 OF 66 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN Compound heterozygosity for COL7A1 mutations in twins with dystrophic epidermolysis bullosa: A recessive paternal deletion/insertion mutation and a dominant negative maternal glycine substitution result in a severe phenotype.
- ANSWER 45 OF 66 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN Two site-directed mutations abrogate enzyme activity but have different effects on the conformation and cellular content of the N-acetylgalactosamine 4-sulphatase protein.
- L1 ANSWER 46 OF 66 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN Transcriptional regulation of the cryIVD gene operon from Bacillus thuringiensis subsp. israelensis.
- ANSWER 47 OF 66 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN Cloning and characterization of MgtE, a putative new class of Mg-2+ transporter from Bacillus firmus OF4.
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- L1 ANSWER 51 OF 66 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN Substrate requirements of hepatitis C virus serine proteinase for intermolecular \*\*\*polypeptide\*\*\* cleavage in Escherichia coli.

- L1 ANSWER 52 OF 66 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN Marked complex I deficiency in patients harboring the np 14459 ND6 mitochondrial DNA mutation associated with Leber hereditary optic neuropathy and dystonia.
- L1 ANSWER 53 OF 66 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN Recurrent nonsense mutations within the type VII collagen gene in patients with severe recessive dystrophic epidermolysis bullosa.
- ANSWER 54 OF 66 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN The human astrovirus RNA-dependent RNA polymerase coding region is expressed by ribosomal frameshifting.
- ANSWER 55 OF 66 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN The relationship between carotenoid biosynthesis and the assembly of the light-harvesting LH2 complex in Rhodobacter sphaeroides.
- L1 ANSWER 56 OF 66 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN TI Cloning of higher plant omega-3 fatty acid desaturases.
- L1 ANSWER 57 OF 66 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN Interaction of barnase with its \*\*\*polypeptide\*\*\* inhibitor barstar studied by protein engineering.
- L1 ANSWER 58 OF 66 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN Fusion of the erythropoietin receptor and the Friend spleen focus-forming virus gp55 glycoprotein transforms a factor-dependent hematopoietic cell line.
- L1 ANSWER 59 OF 66 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN TWO 3',5'-cyclic-adenosine monophosphate response elements in the promoter region of the human gastric inhibitory \*\*\*polypeptide\*\*\* gene.
- ANSWER 60 OF 66 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN Cloning and characterization of genes involved in the biosynthesis of delta-aminolevulinic acid in Escherichia coli.
- L1 ANSWER 61 OF 66 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. ON STN IDENTIFICATION OF A HEPARIN-BINDING GROWTH FACTOR-1 NUCLEAR TRANSLOCATION SEQUENCE BY DELETION \*\*\*MUTATION\*\*\* \*\*\*ANALYSIS\*\*\*
- L1 ANSWER 62 OF 66 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN NF-I PROTEINS FROM BRAIN INTERACT WITH THE PROENKEPHALIN CYCLIC AMP INDUCIBLE ENHANCER.
- L1 ANSWER 63 OF 66 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. ON STN CUCUMBER MOSAIC VIRUS SATELLITE RNA Y STRAIN ANALYSIS OF SEQUENCES WHICH AFFECT YELLOW MOSAIC SYMPTOMS ON TOBACCO.
- L1 ANSWER 64 OF 66 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. ON STN
  TI HMG I-LIKE PROTEINS FROM LEAF AND NODULE NUCLEI INTERACT WITH DIFFERENT AT
  MOTIFS IN SOYBEAN NODULIN PROMOTERS.
- L1 ANSWER 65 OF 66 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. ON STN IDENTIFICATION OF A DOWNSTREAM SEQUENCE AND BINDING PROTEIN THAT REGULATE ADENOVIRUS MAJOR LATE PROMOTER TRANSCRIPTION IN-VITRO.
- L1 ANSWER 66 OF 66 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. ON STN MOLECULAR GENETICS OF HERPES SIMPLEX VIRUS 6. CHARACTERIZATION OF A TEMPERATURE SENSITIVE MUTANT DEFECTIVE IN THE EXPRESSION OF ALL EARLY VIRAL GENE PRODUCTS.

=> amino()acids or peptides
481913 AMINO
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481918 AMINO
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296799 ACIDS
143407 AMINO(W)ACIDS
114497 PEPTIDES
L1 244675 AMINO(W)ACIDS OR PEPTIDES

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33172 SCHEME
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L2 41 NUMBERING(W)SCHEME

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- ANSWER 1 OF 9 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN A circularly permuted myoglobin possesses a folded structure and ligand binding similar to those of the wild-type protein but with a reduced thermodynamic stability.
- ANSWER 2 OF 9 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN The molecular determinants of ionic regulatory differences between brain and kidney Na+/Ca2+ exchanger (NCX1) isoforms.
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- ANSWER 7 OF 9 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. ON STN NUCLEOTIDE SEQUENCE OF THE PSEUDOMONAS-PUTIDA CYTOCHROME P-450-CAM GENE AND ITS EXPRESSION IN ESCHERICHIA-COLI.
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- L3 ANSWER 9 OF 9 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN GLUTATHIONE REDUCTASE EC-1.6.4.2 FROM HUMAN ERYTHROCYTES AMINO-ACID SEQUENCE OF THE STRUCTURALLY KNOWN FAD BINDING DOMAIN.